National Stroke Project – TIA/Ischemic Stroke
Quality IndicatorsAnalytic Flow Chart
(including variable names)

8/31/00

Data analysis is completed on 750 randomly selected fee-for-service acute Medicare beneficiary (all ages) inpatient medical records with a principal diagnosis of any of the following ICD-9-CM codes:
362.34, 433.xx, 434.xx, 435.0, 435.1, 435.3, 435.8, 435.9 and 436

Denominator (D) inclusions	**Included in (D) if:**
Randomly selected acute Medicare beneficiary (all ages) inpatient medical records with a principal diagnosis of any of the following ICD-9-CM codes: 362.34, 433.xx, 434.xx, 435.0, 435.1, 435.3, 435.8, 435.9 or 436	PRN_DIAG = 362.34, 433.xx, 434.xx, 435.0, 435.1, 435.3, 435.8, 435.9 or 436

AND

Numerator (N) Inclusions:	**Include in (N) if:**
Discharge time frame identified by Cycle #	RCODCDT = Cycle 1 - any date 04/98 - 09/98 or Cycle 2 - any date 07/98 - 12/98 or Cycle 3 - any date 10/98 - 03/99

$$\frac{\text{\# STROKE/TIA CASES INCLUDED IN ANALYSIS}}{\text{\# STROKE/TIA CASES SUBMITTED}} = \frac{N}{D} \_\_\_\_\_ \times 100 = \_\_\_\_\_\%$$

CASES MUST PASS THESE REQUIREMENTS TO BE CONSIDERED FOR THE REMAINING PERFORMANCE MEASURES AND TEST MEASURES. FURTHER EXCLUSIONS MAY APPLY.

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Quality Indicator #1 - Antithrombotic prescribed at discharge

Denominator (D) inclusions:	**Include in (D) if:**
Principal diagnosis of any of the following ICD-9-CM codes: 362.34, 433.xx, 434.xx, 435.0, 435.1, 435.3, 435.8, 435.9 or 436 and Discharged alive	(PRN_DIAG = 362.34 or 433.xx or 434.xx or 435.0 or 435.1 or 435.3 or 435.8 or 435.9 or 436) and RCODCDIS ≠ 8
	AND
Denominator (D) exclusions:	**Exclude from (D) if:**
Discharged against medical advice or Transferred to another acute care facility or Patient refusal of all antithrombotics or One or more contraindication to Aggrenox, aspirin, clopidogrel/Plavix, dipyridamole/Persantine, ticlopidine/Ticlid, warfarin/Coumadin (See page 3 for a detailed definition of this derived variable.)	RCODCDIS = 9 or RCODCDIS = 4 or (HNSMED = 1 in position 2 and 3 and 4 and 5 and 7 and 8) or CONT_ALL = 1 (See page 3 for a detailed definition of this derived variable.)
	AND
Numerator (N) inclusions:	**Include in (N) if:**
Aggrenox, aspirin, ticlopidine, clopidogrel, dipyridamole or warfarin prescribed at discharge or Physician plan for Aggrenox, aspirin, ticlopidine, clopidogrel, dipyridamole or warfarin after discharge	[HNSAGGRE = 1 or 2 (plan) or DISMED = 1 in position 6] or [ANSDIS3 = 1 or 2 (plan) or DISMED = 1 in position 2] or [HNSDCWAR = 1 or 2 (plan) or DISMED = 1 in position 1] or [HNSDIPYR = 1 or 2 (plan) or DISMED = 1 in position 5] or [HNSPLAVIX = 1 or 2 (plan) or DISMED = 1 in position 3] or [HNSTICLID = 1 or 2 (plan) or DISMED = 1 in position 4] (See page 5 for a detailed definition of the DISMED derived variable.)

CASES IN THE (D) DISCHARGED ON ANTITHROMBOTIC
OR WITH PHYSICIAN PLAN FOR ANTITHROMBOTIC AFTER DISCHARGE = N = ____ X 100 = ___ %
CASES THAT MEET (D) INCLUSION CRITERIA AND HAVE NO EXCLUSIONS D

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Derived variables for Quality Indicator #1
CONT_ALL = 1 if:

Bleeding disorder	HNSBLDIS = 1
or	or
Physician documentation of risk for bleeding	HNSRENON = 1 in 5
or	or
Peptic ulcer (current)	ANSCFPUD = 1
or	or
Terminal/comfort care on day of arrival or during stay	HNSTERMI = 1 or 2
or	or
CVA, hemorrhagic (hx./curr.)	HNSBLCVA = 1 (history CVA)
or	or
CT scan shows new hemorrhagic CVA	HNSHMCVA = 1 (current CVA)
or	or
MRI scan shows new hemorrhagic CVA	HNSRESCT = 1
or	or
Brain/CNS cancer (hx./curr.)	HNSREMRI = 1
or	or
Extensive/metastatic cancer (hx./curr.)	ANSMESTA = 1
or	or
Terminal illness (life expectancy < 6 m.)	HNSCANC = 1
or	or
Hemorrhage, any type (hx.)	ANSTERML = 1
or	or
Hemorrhage, any type (curr.)	HNSBLEED (history) = 1
or	or
Intracranial surgery/biopsy (curr.)	HNSHEMOR = 1
or	or
Planned surgery within 7 d. following d/c	HNSICSUR = 1
or	or
Physician documentation antithrombotic considered but not prescribed (See page 4 for a detailed definition of this derived variable.)	HNSSURGY = 1
or	or
Unrepaired intracranial aneurysm (hx./curr.)	CONSIDER = 1 (See page 4 for a detailed definition of this derived variable.)
or	or
Aortic dissection (curr.)	HNSANEUR = 1
or	or
History or current finding of allergy, sensitivity, adverse reaction or complication to Aggrenox, aspirin, clopidogrel/Plavix, dipyridamole/Persantine, ticlopidine/Ticlid and warfarin/Coumadin (See page 4 for a detailed definition of this derived variable.)	HNSAORDS = 1
	or
	ADVERSE = 1 (See page 4 for a detailed definition of this derived variable.)

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Derived variables for Quality Indicator #1 (continued)

CONSIDER = 1 if:

Physician documentation that at least one of the following antithrombotics was considered but not prescribed: Aggrenox, aspirin, dipyridamole, clopidogrel, ticlopidine or a specific antithrombotic was not specified	HNSWHICH = 1 (Aggrenox) or 2 (aspirin) or 5 (dipyridamole) or 6 (clopidogrel) or 7 (ticlopidine) or 8 (unable to determine specific antithrombotic)

ADVERSE = 1 if:

History of allergy, sensitivity, adverse reaction or complication to Aggrenox, aspirin, clopidogrel/Plavix, dipyridamole/Persantine, ticlopidine/Ticlid and warfarin/Coumadin or Current allergy, sensitivity, adverse reaction or complication to Aggrenox, aspirin, clopidogrel/Plavix, dipyridamole/Persantine, ticlopidine/Ticlid and warfarin/Coumadin	[(HNSDRUG = 1 and HNSCMPTP = 1 in position 2 or 3 or 4 or 5) and (HNSDRUG = 2 and HNSCMPTP = 1 in position 2 or 3 or 4 or 5) and (HNSDRUG = 3 and HNSCMPTP = 1 in position 2 or 3 or 4 or 5) and (HNSDRUG = 5 and HNSCMPTP = 1 in position 2 or 3 or 4 or 5) and (HNSDRUG = 6 and HNSCMPTP = 1 in position 2 or 3 or 4 or 5) and (HNSDRUG = 7 and HNSCMPTP = 1 in position 2 or 3 or 4 or 5)] or [(HNSMDNAM = 1 and HNSTYCOM = 1 in position 2 or 3 or 4 or 5) and (HNSMDNAM = 2 and HNSTYCOM = 1 in position 2 or 3 or 4 or 5) and (HNSMDNAM = 3 and HNSTYCOM = 1 in position 2 or 3 or 4 or 5) and (HNSMDNAM = 4 and HNSTYCOM = 1 in position 2 or 3 or 4 or 5) and (HNSMDNAM = 5 and HNSTYCOM = 1 in position 2 or 3 or 4 or 5) and (HNSMDNAM = 6 and HNSTYCOM = 1 in position 2 or 3 or 4 or 5)]

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Derived variables for Quality Indicator #1 (continued)

DISMED = 1 in position 1 if:

Any discharge medication is warfarin	RCODCNAM = (any synonym for warfarin) ⇒ DISMED = 1 in position 1

DISMED = 1 in position 2 if:

Any discharge medication is aspirin	RCODCNAM = (any synonym for aspirin) ⇒ DISMED = 1 in position 2

DISMED = 1 in position 3 if:

Any discharge medication is clopidogrel	RCODCNAM = (any synonym for clopidogrel) ⇒ DISMED = 1 in position 3

DISMED = 1 in position 4 if:

Any discharge medication is ticlopidine	RCODCNAM = (any synonym for ticlopidine) ⇒ DISMED = 1 in position 4

DISMED = 1 in position 5 if:

Any discharge medication is dipyridamole	RCODCNAM = (any synonym for dipyridamole) ⇒ DISMED = 1 in position 5

DISMED = 1 in position 6 if:

Any discharge medication is aspirin:dipyridamole combination	RCODCNAM = (any synonym for aspirin: dipyridamole combination) ⇒ DISMED = 1 in position 6

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Quality Indicator #2 – Avoidance of sublingual nifedipine in patients with acute stroke

Denominator (D) inclusions:	**Include in (D) if:**
Confirmed diagnosis of acute stroke (See page 7 for detailed definitions of these derived variables.) and (Blood pressure within the first 24 hours > 180 mmHg systolic or Blood pressure within the first 24 hours > 100 mmHg diastolic or Sublingual nifedipine was administered within first 24 hours following arrival or Sublingual nifedipine was ordered within 24 hours following arrival)	STROKE = 1 (See page 7 for a detailed definition of this derived variable.) and ACUTE = 1 (See page 7 for a detailed definition of this derived variable.) and (HNSHISBP > 180 or HNSHIDBP > 100 or HNSNIADM = 1 or HNSNIFOR = 1)
	AND
Denominator (D) exclusions:	**Exclude from (D) if:**
None	
	AND
Numerator (N) inclusions:	**Include in (N) if:**
Sublingual nifedipine not administered within the first 24 hours following the time of arrival and Sublingual nifedipine not ordered within the first 24 hours following the time of arrival	HNSNIADM = 2 and HNSNIFOR = 2

CASES IN THE (D) NOT GIVEN SUBLINGUAL NIFEDIPINE AND WITHOUT AN ORDER FOR SUBLINGUAL NIFEDIPINE / # ACUTE STROKE CASES THAT MEET (D) INCLUSION CRITERIA AND HAVE NO EXCLUSIONS $= \frac{N}{D} =$ ____ X 100 = ___ %

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Derived variable for Quality Indicator #2 and Test Quality Indicators #1, #2, #3, #4 and #6
STROKE = 1 if:

(Visual deficit and Symptoms > 1 hour **and** present on arrival) or (Speech deficit and Symptoms > 1 hour **and** present on arrival) or (Motor deficit and Symptoms >1 hour **and** present on arrival) or (Sensory deficit and Symptoms > 1 hour **and** present on arrival)	(HNSVSDEF = 1 and HNSVDLST = 2 **and** HNSVDPOA = 1) or (HNSSPDEF = 1 and HNSSDLST = 2 **and** HNSSDPOA = 1) or (HNSMODEF = 1 and HNSMDLST = 2 **and** HNSMDPOA = 1) or (HNSSEDEF = 1 and HNSELST = 2 **and** HNSSEPOA = 1)

Derived variables for Quality Indicator #2 and Test Quality Indicators #2, #3 and #4
ACUTE = 1 if:

Patients with physician documentation of earliest symptom onset ≤ 48 hours prior to arrival or (Patients without physician documentation of time of earliest symptom onset and Symptom onset ≤ 2 days prior to arrival) (See below and page 8 for detailed definitions of these derived variables.)	ARDTTM – SYM1DTTM ≤ 48 hours (See below and page 8 for detailed definitions of these derived variables.)

ARDTTM = reformatted date and time of arrival

Reformat date and time of arrival into one variable expressing date and time in format ddmmyy:hh:mm	ARDTTM = RCOARRDT : RCOARRTM

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Derived variables for Quality Indicator #2 (continued)

Calculate and reformat symptom onset dates/times and find the earliest of all symptoms present.

SYM1DTTM = date and time of EARLIEST symptom onset (reformatted)

1. Reformat all symptom onset dates and times into one variable for each symptom expressing date and time in format ddmmmyy:hh:mm	VIDTTM = HNSVDDT : HNSTMVD SPDTTM = HNSSDDT : HNSTMSD MODTTM = HNSMDDT : HNSTMMD SEDTTM = HNSSEDT : HNSTMSE
2. Reformat arrival date and time into one variable in format ddmmmyy:hh:mm	ARDTTM = RCOARRDT : RCOARRTM
3. If Visual deficit onset date or time are missing or UTD, use symptom onset interval and arrival date and time to calculate: [If interval = 1 (less than or equal to one hour), subtract one hour from arrival, else if interval = 2 (greater than one hour and less than or equal to two hours), subtract two hours from arrival, else if interval = 3 (greater than two hours and less than or equal to three hours), subtract three hours from arrival, else if interval = 4 (greater than three hours and less than or equal to 24 hours), subtract 24 hours from arrival, if interval = 5 (greater than 24 hours and less than or equal to 48 hours), subtract 48 hours from arrival, if interval = 6 (greater than 48 hours and less than or equal to seven days), subtract 7 days from arrival, else if interval = 7 (physician unable to determine) or 8 (no physician documentation), go to deficit onset date ***Repeat this process with all four neurologic deficit categories.***	If [HNSVDDT = (UTD or blank) or HNSTMVD = (UTD or blank)] ⇒ (If HNSVDTM = 1 ⇒ VIDTTM=ARDTTM – 1 hour else If HNSVDTM = 2 ⇒ VIDTTM=ARDTTM – 2 hours else If HNSVDTM = 3 ⇒ VIDTTM=ARDTTM – 3 hours else If HNSVDTM = 4 ⇒ VIDTTM = ARDTTM – 24 hours else If HNSVDTM = 5 ⇒ VIDTTM = ARDTTM – 48 hours else If HNSVDTM = 6 ⇒ VIDTTM = ARDTTM – 7 days) else If HNSVDTM = 7 or 8 ⇒ VIDTTM = HNSVDDT : 00:00 ***Repeat this process with all four neurologic deficit categories.***

Of the four neurologic deficit categories, use the EARLIEST symptom onset (reformatted)	SYM1DTTM = Minimum (VIDTTM, SPDTTM, MODTTM, SEDTTM)

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Test Quality Indicator #1 – Documentation of time of symptom onset (or interval)

Denominator (D) inclusions:	**Include in (D) if:**
Confirmed diagnosis of stroke (See page 7 for a detailed definition of this derived variable.)	STROKE = 1 (See page 7 for a detailed definition of this derived variable.)
	AND
Denominator (D) exclusions:	**Exclude from (D) if:**
None	
	AND
Numerator (N) inclusions:	**Include in (N) if:**
Physician documentation of symptom onset interval or Physician documentation of specific time of symptom onset (i.e., HH:MM)	HNSVDTM = 1 or 2 or 3 or 4 or 5 or 6 or 7 or HNSSDTM = 1 or 2 or 3 or 4 or 5 or 6 or 7 or HNSMDTM = 1 or 2 or 3 or 4 or 5 or 6 or 7 or HNSSETI = 1 or 2 or 3 or 4 or 5 or 6 or 7 or HNSTMVD ≠ (UTD or blank) or HNSTMSD ≠ (UTD or blank) or HNSTMMD ≠ (UTD or blank) or HNSTMSE ≠ (UTD or blank)

CASES IN THE (D) WITH DEFICIT ONSET TIME DOCUMENTED = N = ____ X 100 = ___ %
STROKE CASES THAT MEET (D) INCLUSION CRITERIA AND HAVE NO EXCLUSIONS D

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Test Quality Indicator #2 – Head CT/MRI during hospitalization

Denominator (D) inclusions:	**Include in (D) if:**
Confirmed diagnosis of acute stroke (See page 7 for detailed definitions of these derived variables.) and Did not arrive from another acute care facility	STROKE = 1 and ACUTE = 1 (See page 7 for detailed definitions of these derived variables.) and RCOADMST ≠ 4
	AND
Denominator (D) exclusions:	**Exclude from (D) if:**
Terminal/comfort care on day of arrival	HNSTERMI = 1
	AND
Numerator (N) inclusions:	**Include in (N) if:**
Head CT/MRI within one day prior to arrival or during stay	HNSCT = 1 or HNSMRI = 1

$$\frac{\text{\# CASES IN THE (D) WITH HEAD CT/MRI}}{\text{\# ACUTE STROKE CASES THAT MEET (D) INCLUSION CRITERIA AND HAVE NO EXCLUSIONS}} = \frac{N}{D} = \_\_\_\_ \times 100 = \_\_\_ \%$$

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Test Quality Indicator #3 – Time to initial head CT/MRI

Denominator inclusions:

See numerator data set for Test Quality Indicator #2 and (Date and time of CT documented or Date and time of MRI documented) (See page 12 for detailed definitions of these derived variables.) and Date and time of arrival documented (See page 7 for a detailed definition of this derived variable.)	See numerator data set for Test Quality Indicator #2 and (CTDTTM1 ≠ blank or MRIDTTM1 ≠ blank) (See page 12 for detailed definitions of these derived variables.) and ARDTTM ≠ blank (See page 7 for a detailed definition of this derived variable.)

AND

Denominator exclusions:

None	None

The median time (in minutes) from arrival to initial CT or MRI is based on the earliest time of the CT or MRI as defined in the MIN_SCAN derived variable on page 12.

Note: If CT or MRI time is prior to arrival, then TIME2CT = 0 or TIME2MRI = 0.

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Derived variables for Test Quality Indicator #3

Reformat dates and times to simplify further calculations

CTDTTM1 = reformatted date and time of CT scan

If HNSCTTM is not blank, then reformat date and time of CT scan into one variable expressing date and time in format ddmmmyy:hh:mm – example: 01JAN98:15:04, meaning 3:04pm on January 1, 1998	CTDTTM1 = HNSCTDT : HNSCTTM

MRIDTTM1 = reformatted date and time of MRI scan

If HNSMRITM is not blank, then reformat date and time of MRI scan into one variable expressing date and time in format ddmmmyy:hh:mm – example: 01JAN98:15:04, meaning 3:04pm on January 1, 1998	MRIDTTM1 = HNSMRIDT : HNSMRITM

MIN_SCAN

The earliest time of the initial CT or MRI	Minimum of (TIME2CT, TIME2MRI)

TIME2CT

The difference between the time of the initial CT and the time of arrival	TIME2CT = CTDTTM1 - ARDTTM

TIME2MRI

The difference between the time of the initial MRI and the time of arrival	TIME2MRI = MRIDTTM1 - ARDTTM

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Test Quality Indicator #4 – Time to thrombolytic administration

Denominator inclusions:

Confirmed diagnosis of acute stroke (See page 7 for detailed definitions of these derived variables.) and Date and time of arrival documented (See page 7 for a detailed definition of this derived variable.) and Date and time of earliest thrombolytic administration documented (See below for a detailed definition of this derived variable.) and Thrombolytic administered during this hospitalization on the day of arrival or the first day following arrival (See below for a detailed definition of this derived variable.)	STROKE = 1 and ACUTE = 1 (See page 7 for detailed definitions of these derived variables.) and ARDTTM ≠ blank (See page 7 for a detailed definition of this derived variable.) and TPA1DTTM ≠ blank (See below for a detailed definition of this derived variable.) and {HNSLYTIC = 2 and [TPA_ADMN in (0,1)]} (See below for a detailed definition of this derived variable.)

AND

Denominator exclusions:

None	None

The median time (in minutes) from arrival to thrombolytic administration is based on TPA1DTTM minus ARDTTM for each record.

Derived variable for Test Quality Indicator #4

TPA1DTTM = reformatted date and time of initial thrombolytic administration

Thrombolytic on the day of arrival or the first day following arrival and Date and time of initial dosage of thrombolytic administered for this record (See below for detailed definitions of these derived variables.)	TPA_ADMN in (0,1) and Earliest THRDTTM for this record (See below for detailed definitions of these derived variables.)

TPA_ADMN

Thrombolytic date minus the arrival date	HNSTPATM - RCOARRDT

THRDTTM = reformatted date and time of thrombolytic administration

If time of thrombolytic is not blank, then reformat date and time of thrombolytic administration into one variable expressing date and time in format ddmmmyy:hh	THRDTTM = HNSTPATM:HNSTMTPA

TIME2THR

Time to initial thrombolytic equals the time of initial thrombolytic administration minus the time of arrival measured in minutes	TIME2THR = TPA1DTTM – ARDTTM

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Test Quality Indicator #5 – Thrombolytic patients meeting recommended dosing, timing, imaging and blood pressure parameters

NOTE: The analysis for this indicator is under development and will be updated when available.

5a. Acute stroke patients with adequate information documented regarding dosing, timing, imaging and blood pressure

CASES IN THE (D) WITH DOSING, TIMING, IMAGING AND PRE-THROMBOLYTIC BP DOCUMENTED / # ACUTE STROKE CASES THAT MEET (D) INCLUSION CRITERIA AND HAVE NO EXCLUSIONS = N/D = ____ X 100 = ____%

#5b. Acute stroke patients receiving thrombolysis for stroke that have dosing, timing, imaging and blood pressure information documented, receive an FDA approved drug and meet recommended dosing, timing, imaging and blood pressure parameters for thrombolytic administration

CASES IN THE (D) THAT MEET DOSING, TIMING, IMAGING AND PRE-THROMBOLYTIC BP GUIDELINES / # ACUTE STROKE CASES THAT MEET (D) INCLUSION CRITERIA AND HAVE NO EXCLUSIONS = N/D = ____ X 100 = ____ %

#5c. All acute stroke patients receiving thrombolysis for stroke, that receive an FDA approved drug and meet recommended dosing, timing, imaging and blood pressure parameters

CASES IN THE (D) THAT MEET DOSING, TIMING, IMAGING AND PRE-THROMBOLYTIC BP GUIDELINES / # ACUTE STROKE CASES THAT MEET (D) INCLUSION CRITERIA AND HAVE NO EXCLUSIONS = N/D = ____ X 100 = ____ %

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Test Quality Indicator #6 – Deep vein thrombosis prophylaxis (DVT) initiated by second hospital day

Denominator (D) inclusions:	**Include in (D) if:**
Confirmed diagnosis of stroke (See page 2 for a detailed definition of this derived variable.) and Nonambulatory on second hospital day	STROKE = 1 (See page 2 for a detailed definition of this derived variable.) and HNSLOA = 4
	AND
Denominator (D) exclusions:	**Exclude from (D) if:**
Terminal/comfort care on the day of arrival or any time during the hospitalization	HNSTERMI = 1 or 2
	AND
Numerator (N) inclusions:	**Include in (N) if:**
DVT prophylaxis* initiated by second hospital day	HNSIPC = 1 or WARORDD2 = 1 (See below for a detailed definition of this derived variable.) or [HNSHEPD2 = 1 and (HNSSTOP – HNSSTART ≥ 2) or RCODCDT – HNSSTART < 3)]

*Included in DVT prophylaxis: intermittent pneumatic compression (IPC) devices, anticoagulation with warfarin or heparin (low-dose unfractionated, low molecular weight or full-dose)

$$\frac{\text{\# CASES IN THE (D) WITH DVT PROPHYLAXIS INITIATED BY THE CLOSE OF THE SECOND HOSPITAL DAY}}{\text{\# STROKE CASES THAT MEET (D) INCLUSION CRITERIA AND HAVE NO EXCLUSIONS}} = \frac{N}{D} = \_\_\_\_ \times 100 = \_\_\_\_ \%$$

Derived variable for Test Quality Indicator #6
Warfarin ordered by end of second hospital day, listed at any time in table HNSML3

WARORDD2 = 1 if:	
Warfarin ordered by the end of the second hospital day	HNSDAY2 = 1